

ABSTRACT

PHOTOSENSITIVE BLACK MATRIX

A spin coatable, photosensitive black matrix coating having high surface resistivity and exhibiting an optical density greater than 3 at film thicknesses of  $\leq 1$  micron has been developed for flat panel display applications where a chrome/chrome oxide black matrix is usually employed. It possesses excellent thermal, light, and chemical stability and good shelf life. It is deposited and patterned by a simple photolithographic process excellent thermal, light, and chemical stability and good shelf life. It is deposited and patterned by a simple photolithographic process, thereby reducing the cost of processing in relation to chrome/chrome oxide black matrix fabrication processes.